

ABSTRACT

An image display device includes a smoothing unit that filters the image data to be displayed. According to one aspect of the invention, only bright parts of the image that are adjacent to dark parts are smoothed, thereby improving the sharpness of dark dots and lines displayed on a bright background. According to another aspect, different primary colors are smoothed with different characteristics, enabling unwanted colored tinges to be removed from the edges of white areas. According to still another aspect, smoothing moves the luminance centroids of all primary colors in a direction in which the display screen is scanned, to reduce ringing effects without needless loss of edge sharpness.

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